

AMENDMENTS TO THE CLAIMS

This listing of claims will replace all prior versions and listings of claims in the application:

LISTING OF CLAIMS:

1. (Previously Presented) A rubber material composition comprising:
carboxylated acrylonitrile-butadiene rubber;
20 to 90 wt parts of carbon black for 100 wt parts of said carboxylated acrylonitrile-butadiene rubber; and
10 to 60 wt parts of polyolefin resin for 100 wt parts of said carboxylated acrylonitrile-butadiene rubber.

2-6. (canceled)

7. (Previously Presented) A rubber material composition consisting essentially of:
carboxylated acrylonitrile-butadiene rubber; and
10 to 60 wt parts of polyolefin resin for 100 wt parts of said carboxylated acrylonitrile-butadiene rubber,
wherein the polyolefin resin is selected from the group consisting of carboxylic modified polyethylene and carboxylic modified polypropylene.

8. (Previously Presented) A rubber material composition comprising:
carboxylated acrylonitrile-butadiene rubber; and
10 to 60 wt parts of polyolefin based resin for 100 wt parts of said carboxylated acrylonitrile-butadiene rubber,
wherein the polyolefin based resin is selected from the group consisting of carboxylic modified polyethylene and carboxylic modified polypropylene.

9. (Previously Presented): The rubber material composition of claim 7, wherein the carboxylated acrylonitrile-butadiene rubber comprises a carboxyl group in an amount of 1×10^{-4} ephr or more, in terms of acid-equivalent weight.

10. (Previously Presented): The rubber material composition of claim 9, wherein the carboxylated acrylonitrile-butadiene rubber comprises a carboxyl group in an amount of 2×10^{-3} to 5×10^{-2} ephr, in terms of acid equivalent weight.

11. (Previously Presented): The rubber material composition of claim 10, wherein the carboxylated acrylonitrile-butadiene rubber comprises a carboxyl group in an amount of 2×10^{-3} ephr, in terms of acid equivalent weight.

12. (Previously Presented): The rubber material composition of claim 7, further comprising a vulcanization agent and an age register agent.

13. (Previously Presented): The rubber material composition of claim 12, further comprising a reinforcing agent selected from the group consisting of hydrated silica, clay, talc, calcium carbonate, diatomaceous earth and wollastonite.

14. (Previously Presented): The rubber material composition of claim 13, wherein the reinforcing agent is an amount of 20 to 150 wt parts per 100 parts of the carboxylated acrylonitrile-butadiene rubber.

15. (Previously Presented): The rubber material composition of claim 12, further comprising a reinforcing agent that comprises a mixture of carbon black and a white filler selected from the group consisting of hydrated silica, clay, talc, calcium carbonate, diatomaceous earth and wollastonite.

16. (Previously Presented): The rubber material composition of claim 15, wherein the mixture is 20 to 200 wt parts per 100 wt parts of the carboxylated acrylonitrile-butadiene rubber.

17. (Previously Presented): The rubber material composition of claim 16, wherein the mixture comprises 10 to 90 wt parts of carbon black and 10 to 110 wt parts of the white filler.

18. (Previously Presented): The rubber material composition of claim 7, further comprising a lubricant wax or oil.

19. (Previously Presented): The rubber material composition of claim 18, wherein the lubricant is a wax having a melting point of 40 to 140°C.

20. (Previously Presented) The rubber material composition of claim 19, wherein the wax is selected from the group consisting of paraffin wax, micro-crystal wax, polyethylene wax, montan wax, carnauba wax, an ester based wax, stearamide, oxystero amide erucylamide, laurylamine, palmitylamine, behenamide, methylolamide, ethylenebisoleylamide and stearyloleylamide.

21. (Previously Presented): The rubber material composition of claim 20, wherein the wax is polyethylene wax.

22. (Previously Presented): The rubber material composition of claim 19, wherein the wax is added in an amount of 3 to 30 wt parts per 100 wt parts per the carboxylated acrylonitrile-butadiene rubber.

23. (Previously Presented): The rubber material composition of claim 18, wherein the lubricant is an oil selected from the group consisting of a mineral oil, an ether oil, a silicone oil, a poly α olefin oil, a fluorine oil and a fluorine base surfactant.

24. (Previously Presented): The rubber material composition of claim 23, wherein the lubricant is a silicone oil comprising polydimethyl siloxane as a main component.

25. (Previously Presented): The rubber material composition of claim 24, wherein a part of the methyl group of the polydimethyl siloxane is a modified type replaced with an amino group, alkyl group, polyether group or higher fatty acid ester.

26. (Previously Presented): The rubber material composition of claim 23, wherein the oil is added in an amount of 1 to 30 wt parts per 100 wt parts of the carboxylated acrylonitrile-butadiene rubber.

27. (Previously Presented): The rubber material composition of claim 19, wherein the wax has a melting point of 55 to 70°C and is added in an amount of 0.5 to 2 wt parts per 100 wt parts of the carboxylated acrylonitrile-butadiene rubber.

28. (Previously Presented): The rubber material composition of claim 19, wherein the wax has a melting point of 75 to 130°C and is added in an amount of 5 to 20 wt parts per 100 wt parts of the carboxylated acrylonitrile-butadiene rubber.

29. (Previously Presented): The rubber material composition of claim 7, having a hardness of 60 to 90 according to spring hardness A scale in JIS K6301.

30. (Previously Presented): The rubber material composition of claim 29, having a hardness of 70 to 80 according to spring hardness A scale in JIS K6301.

31. (Previously Presented): The rubber material composition of claim 7, having a hardness of 60 to 90 measured by a durometer A scale.

32. (Previously Presented): The rubber material composition of claim 31, having a hardness of 70 to 80 measured by a durometer A scale.

33. (Previously Presented): The rubber material composition of claim 29, having tensile rupture elongation of 200% or higher.

34. (Previously Presented): The rubber material composition of claim 33, having tensile rupture elongation of 300% or higher.

35. (Previously Presented): The rubber material composition of claim 34 having tension rupture strength of 20 MPa or more.

36. (Previously Presented): The rubber material composition of claim 35 having tension rupture strength of 25 MPa or more.

37. (Previously Presented): The rubber material composition of claim 8, wherein the carboxylated acrylonitrile-butadiene rubber comprises a carboxyl group in an amount of 1×10^{-4} ephr or more, in terms of acid-equivalent weight.

38. (Previously Presented): The rubber material composition of claim 37, wherein the carboxylated acrylonitrile-butadiene rubber comprises a carboxyl group in an amount of 2×10^{-3} to 5×10^{-2} ephr, in terms of acid equivalent weight.

39. (Previously Presented): The rubber material composition of claim 38, wherein the carboxylated acrylonitrile-butadiene rubber comprises a carboxyl group in an amount of 2×10^{-3} ephr, in terms of acid equivalent weight.

40. (Previously Presented): The rubber material composition of claim 8, further comprising a vulcanization agent and an age register agent.

41. (Previously Presented): The rubber material composition of claim 40, further comprising a reinforcing agent selected from the group consisting of hydrated silica, clay, talc, calcium carbonate, diatomaceous earth and wollastonite.

42. (Previously Presented): The rubber material composition of claim 41, wherein the reinforcing agent is an amount of 20 to 150 wt parts per 100 parts of the carboxylated acrylonitrile-butadiene rubber.

43. (Previously Presented): The rubber material composition of claim 40, further comprising a reinforcing agent that comprises a mixture of carbon black and a white filler selected from the group consisting of hydrated silica, clay, talc, calcium carbonate, diatomaceous earth and wollastonite.

44. (Previously Presented): The rubber material composition of claim 53, wherein the mixture is 20 to 200 wt parts per 100 wt parts of the carboxylated acrylonitrile-butadiene rubber.

45. (Previously Presented): The rubber material composition of claim 44, wherein the mixture comprises 10 to 90 wt parts of carbon black and 10 to 110 wt parts of the white filler.

46. (Previously Presented): The rubber material composition of claim 8, further comprising a lubricant wax or oil.

47. (Previously Presented): The rubber material composition of claim 46, wherein the lubricant is a wax having a melting point of 40 to 140°C.

48. (Previously Presented) The rubber material composition of claim 47, wherein the wax is selected from the group consisting of paraffin wax, micro-crystal wax, polyethylene wax, montan wax, carnauba wax, an ester based wax, stearamide, oxystero amide erucylamide,

laurylamide, palmitylamide, behenamide, methylolamide, ethylenebisoleylamide and stearyloleylamide.

49. (Previously Presented): The rubber material composition of claim 48, wherein the wax is polyethylene wax.

50. (Previously Presented): The rubber material composition of claim 47, wherein the wax is added in an amount of 3 to 30 wt parts per 100 wt parts per the carboxylated acrylonitrile-butadiene rubber.

51. (Previously Presented): The rubber material composition of claim 46, wherein the lubricant is an oil selected from the group consisting of a mineral oil, an ether oil, a silicone oil, a poly α olefin oil, a fluorine oil and a fluorine base surfactant.

52. (Previously Presented): The rubber material composition of claim 51, wherein the lubricant is a silicone oil comprising polydimethyl siloxane as a main component.

53. (Previously Presented): The rubber material composition of claim 52, wherein a part of the methyl group of the polydimethyl siloxane is a modified type replaced with an amino group, alkyl group, polyether group or higher fatty acid ester.

54. (Previously Presented): The rubber material composition of claim 51, wherein the oil is added in an amount of 1 to 30 wt parts per 100 wt parts of the carboxylated acrylonitrile-butadiene rubber.

55. (Previously Presented): The rubber material composition of claim 47, wherein the wax has a melting point of 55 to 70°C and is added in an amount of 0.5 to 2 wt parts per 100 wt parts of the carboxylated acrylonitrile-butadiene rubber.

56. (Previously Presented): The rubber material composition of claim 47, wherein the wax has a melting point of 75 to 130°C and is added in an amount of 5 to 20 wt parts per 100 wt parts of the carboxylated acrylonitrile-butadiene rubber.

57. (Previously Presented): The rubber material composition of claim 8, having a hardness of 60 to 90 according to spring hardness A scale in JIS K6301.

58. (Previously Presented): The rubber material composition of claim 57, having a hardness of 70 to 80 according to spring hardness A scale in JIS K6301.

59. (Previously Presented): The rubber material composition of claim 8, having a hardness of 60 to 90 measured by a durometer A scale.

60. (Previously Presented): The rubber material composition of claim 59, having a hardness of 70 to 80 measured by a durometer A scale.

61. (Previously Presented): The rubber material composition of claim 57, having tensile rupture elongation of 200% or higher.

62. (Previously Presented): The rubber material composition of claim 61, having tensile rupture elongation of 300% or higher.

63. (Previously Presented): The rubber material composition of claim 62, having tension rupture strength of 20 MPa or more.

64. (Previously Presented): The rubber material composition of claim 63, having tension rupture strength of 25 MPa or more